

Appendix F

Threatened and Endangered Species

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Threatened and endangered plants and animals identified on the Hanford Site, as listed by the federal government (50 CFR 17) and Washington State (Washington Natural Heritage Program 1994), are shown in Table F.1. Under a proposed rule (61 FR 7595), the fish and wildlife service has consolidated its listing categories of candidate species from three designations to one. Consequently, a number of previously listed Federal candidate species found on the Hanford Site have been dropped from Federal listing.

No plants or mammals on the federal list of endangered and threatened wildlife and plants (50 CFR 17) are known to occur on the Hanford Site. There are, however, three species of birds on the federal list of threatened and endangered species and several species of both plants and animals that are under consideration for formal listing by the State of Washington. There are 21 candidate species of plants and animals (Table F.2) and 23 monitored plant species Table F.3 listed by the state of Washington.

Table F.1. Federally or Washington State Listed Threatened (T) and Endangered (E) Species Occurring or Potentially Occurring on the Hanford Site

Common Name	Scientific Name	Federal	State
Insects			
Oregon silverspot butterfly ^(a)	<i>Speyerra zerone</i>	T	T
Plants			
Columbia milk-vetch	<i>Astragalus columbianus</i>		T
Columbia yellowcress	<i>Rorippa columbiae</i>		E
Dwarf evening primrose	<i>Oenothera pygmaea</i>		T
Hoover's desert parsley	<i>Lomatium tuberosum</i>		T
Northern wormwood ^(a)	<i>Artemisia campestris borealis</i> var. <i>wormskioldii</i>		E
Birds			
Aleutian Canada goose ^(b)	<i>Branta canadensis leucopareia</i>	T	E
American white pelican	<i>Pelecanus erythrorhynchos</i>		E
Bald eagle	<i>Haliaeetus leucocephalus</i>	T	T
Ferruginous hawk	<i>Buteo regalis</i>		T
Peregrine falcon ^(b)	<i>Falco peregrinus</i>	E	E
Sandhill crane ^(b)	<i>Grus canadensis</i>		E
Mammals			
Pygmy rabbit ^(a)	<i>Brachylagus idahoensis</i>		E

(a) Likely not currently occurring on the Site.

(b) Incidental occurrence.

Table F.2. State Candidate Species Potentially Found on the Hanford Site

Common Name	Scientific Name
Molluscs	
Columbia pebble snail	<i>Fluminicola</i> (= <i>Lithoglyphus</i>) <i>columbiana</i>
Shortfaced lanx	<i>Fisherola</i> (= <i>Lanx</i>) <i>nuttalli</i>
Birds	
Burrowing owl	<i>Athene cunicularia</i>
Common loon	<i>Gavia immer</i>
Flammulated owl ^(a)	<i>Otus flammeolus</i>
Golden eagle	<i>Aquila chrysaetos</i>
Lewis' woodpecker ^(a)	<i>Melanerpes lewis</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Long-billed curlew	<i>Numenius americanus</i>
Northern goshawk ^(a)	<i>Accipiter gentilis</i>
Sage sparrow	<i>Amphispiza belli</i>
Sage thrasher	<i>Oreoscoptes montanus</i>
Swainson's hawk	<i>Buteo swainsoni</i>
Trumpeter swan ^(b)	<i>Cygnus columbianus</i>
Western bluebird ^(a)	<i>Sialia mexicana</i>
Western sage grouse ^(a)	<i>Centrocercus urophasianus phaios</i>
Insects	
Columbia River tiger beetle ^(b)	<i>Cinindela colubica</i>
Reptiles	
Striped whipsnake	<i>Masticophis taeniatus</i>
Mammals	
Merriam's shrew	<i>Sorex merriami</i>
Pacific western big-eared bat ^(b)	<i>Plecotus townsendii townsendii</i> or <i>pallascens</i>
Pygmy rabbit ^(a)	<i>Brachylagus idahoensis</i>

(a) Reported, but seldom observed on the Hanford Site.

(b) Probable, but not observed, on the Hanford Site.

Table F.3. Washington State Plant Species of Concern Occurring on the Hanford Site

Common Name	Scientific Name	Status ^(a)
Bristly cryptantha	<i>Cryptantha interrupta</i>	M2
Columbia River mugwort	<i>Artemisia lindleyana</i>	M3
Crouching milkvetch	<i>Astragalus succumbens</i>	M3
Dense sedge	<i>Carex densa</i>	S
Desert evening primrose	<i>Oenothera cespitosa</i>	S
False pimpernel	<i>Lindernia anagallidea</i>	S
Fuzzy-beard tongue penstemon	<i>Penstemon eriantherus</i>	M3
Gray cryptantha	<i>Cryptantha leucophaea</i>	S
Medic milkvetch	<i>Astragalus speirocarpus</i>	M3
Palouse thistle	<i>Cirsium brevifolium</i>	M3
Piper's daisy	<i>Erigeron piperianus</i>	S
Robinson's onion	<i>Allium robinsonii</i>	M3
Rosy balsamroot	<i>Balsamorhiza rosea</i>	M3
Shining flatsedge	<i>Cyperus rivularis</i>	S
Smooth cliffbrake	<i>Pellaea glabella</i>	M3
Southern mudwort	<i>Limosella acaulis</i>	S
Squill onion	<i>Allium scillioides</i>	M3
Stalked-pod milkvetch	<i>Astragalus sclerocarpus</i>	M3
Thompson's sandwort	<i>Arenaria franklinii</i> v. <i>thompsonii</i>	M2
Tooth-sepal dodder	<i>Cuscuta denticulata</i>	M1

The following species may inhabit the Hanford Site, but have not been recently collected, and the known collections are questionable in terms of location and/or identification.

Coyote tobacco	<i>Nicotiana attenuata</i>	S
Few-flowered blue-eyed Mary	<i>Collinsia sparsiflora</i>	S
Palouse milkvetch	<i>Astragalus arrectus</i>	S

(a) S = Sensitive, i.e., taxa vulnerable or declining, and could become endangered or threatened without active management or removal of threats.

M1 = Monitor group 1. Taxa for which there are insufficient data to support listing as threatened, endangered, or sensitive.

M2 = Monitor group 2, i.e., taxa with unresolved taxonomic questions.

M3 = Monitor group 3, i.e., taxa that are more abundant and/or less threatened than previously assumed.